

DERWENT- 1998-261980

ACC-NO:

DERWENT- 199824

WEEK:

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TITLE: System for promoting
growth of tomato
plants, avoiding use
of pesticides -
exposes plants to
supersonic sounds to
encourage movement of
pollen and to damage
pests

PATENT- THOMAS H F
ASSIGNEE: A[THOMI]

PRIORITY- 1996BE-0000167
DATA: (February 27, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
BE	December F		031	A01H
10100492,	1997			000/0
A3				

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
BE	N/A	1996BE-	February
1010049A3		000016727,	1996

INT-CL A01G000/00, A01H000/00
(IPC) : , A01M000/00

ABSTRACTED-PUB-NO: BE 1010049A

BASIC-ABSTRACT:

The tomato plants (7) or similar are grown in rows in a greenhouse (19). Above the plants is a rail system on which a sonic generator (18) is mounted. The generator can be moved along the rail at a controlled speed. The generator consists of one or more signal generators and a bank of loudspeakers. The movement of the generator, the output frequencies and waveforms can all be adjusted and controlled from a operator control panel (22) on the wall of the greenhouse.

Ultrasonic signals at **frequencies** between 16 and 22 kHz are used to cause **resonance** in the pollen bearing parts of the **plants** and to assist in propagation. Frequencies of about 12.5 kHz are used to disturb non-insect pests and 20 to 35 kHz to disrupt the activity of insects.

ADVANTAGE - Does not involve use of pesticides.

CHOSEN- Dwg.3/9

DRAWING:

TITLE- SYSTEM PROMOTE GROWTH

TERMS: TOMATO PLANT AVOID

PEST EXPOSE PLANT

SUPERSONIC SOUND

ENCOURAGE MOVEMENT

POLLEN DAMAGE PEST

DERWENT-CLASS: P13 P14 X25

EPI-CODES: X25-N01B; X25-X;

SECONDARY-ACC-NO:

Non-CPI Secondary	N1998-
Accession Numbers:	206496

